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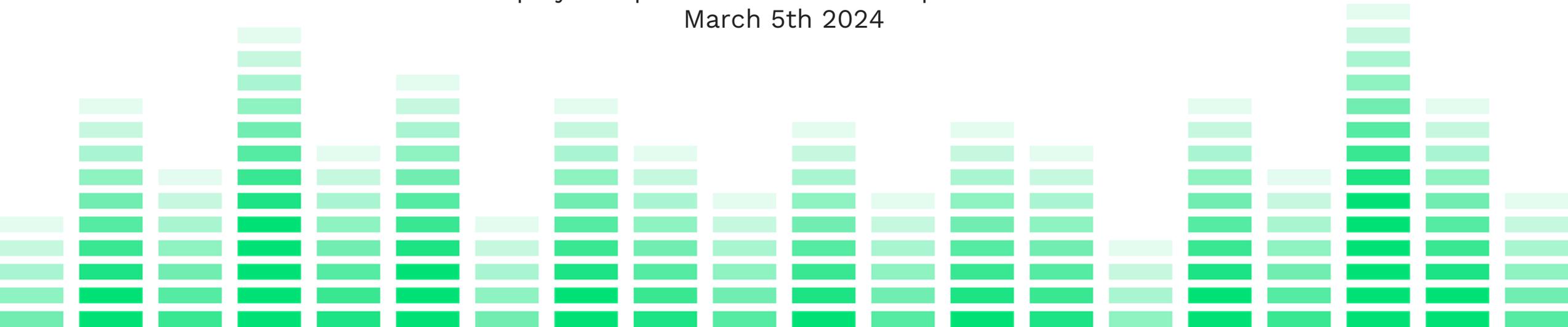
aufgrund eines Beschlusses
des Deutschen Bundestages

Content Requirements for the Battery Passport

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 acatech – National Academy of Science and Engineering

State of play and possible future developments of the DPP
March 5th 2024





Scope of the Battery Passport

The battery passport is defined in Article 77 of the Battery Regulation and encompasses reporting requirements covering the entire battery life cycle

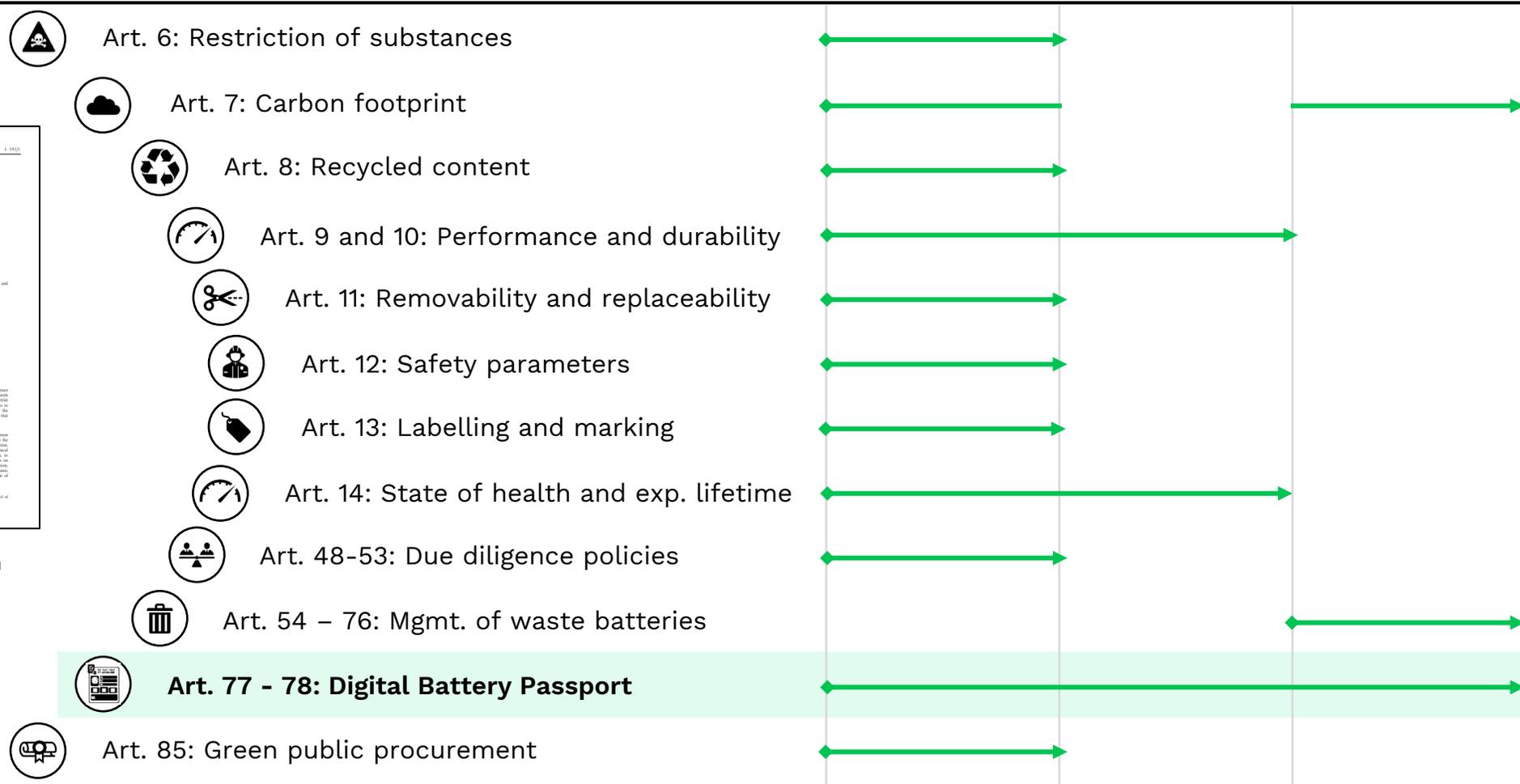
Not exhaustive

Lifecycle stages

Sourcing & production

Usage

End of life



EU Battery Regulation

The battery passport will be required for EV, LMT and industrial batteries > 2 kWh from February 2027 with the main responsibility lying with the “economic operator”

Specifications for the battery passport



Timeline

The battery passport will be required from 18 February 2027



Scope

- Batteries in light means of transport (LMT)
 - Industrial batteries with a capacity greater than 2 kWh
 - Electric vehicle (EV) batteries
-



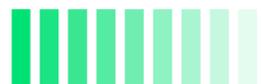
Responsibility

The responsibility lies with the economic operator (or an authorized representative) placing the battery on the market



Stakeholder Groups

- 1) The general public
 - 2) Notified bodies, market surveillance authorities and the Commission
 - 3) Any natural or legal person with a legitimate interest in accessing and processing that information
-



Battery Passport content and system

outlined in the Battery Passport Content Guidance

The Battery Regulation defines the mandatory scope of data attributes for the battery passport, with further recommendations made by the Battery Pass

Battery Pass approach

Battery Regulation



The EU Battery Regulation defines **all mandatory data attributes** to be made accessible via the battery passport.

Further regulations



Further regulations serve as a source to:

- complement definitions,
- generate additional background information, and
- harmonise reporting requirements.

Scope was limited to **EU and key Member States** regulations to align with other (upcoming) requirements in the region, e.g., the Ecodesign for Sustainable Products Regulation (ESPR) and the German Supply Chain Act.

Battery Pass objective and scope



Guidance on how to achieve **compliance with** the battery passport content requirements as mandated by **the EU Battery Regulation**.



Recommendations how to:



...interpret the regulatory text



...harmonise with other regulations



...increase sustainability & circularity



More than 100 organizations from the broader Battery Pass network participated in a consultation webinar submitting more than 250 comments on the draft report during a feedback phase lasting around two months.

The battery passport will contain a wide array of information

Data categories for the battery passport (select data attributes shown below)

Battery Pass

Battery ID: 0101010

Battery passport ID: 1111010

Responsible economic operator

General information

-  Manufacturing info (identity, place, date)
-  Battery category
-  Battery weight
-  Battery status

Labels and certifications¹

-  Symbols and labels
-  Meaning of labels & symbols
-  Declaration of conformity
-  Compliance of test results

Carbon footprint

-  Carbon footprint (5 metrics)
-  Weblink to CF study
-  CF performance class

Supply chain due diligence

-  Due diligence report

Materials and composition

-  Hazardous substances
-  Battery chemistry
-  Critical raw materials
-  Materials used in cathode, anode, electrolyte

Circularity & resource efficiency

-  Recycled content shares
-  Manuals for removal, disassembly, dismantling
-  Component part numbers & spare parts information
-  Safety measures/instructions

Performance & durability

-  Capacity, energy, power, SoH
-  Expected lifetime
-  Negative events

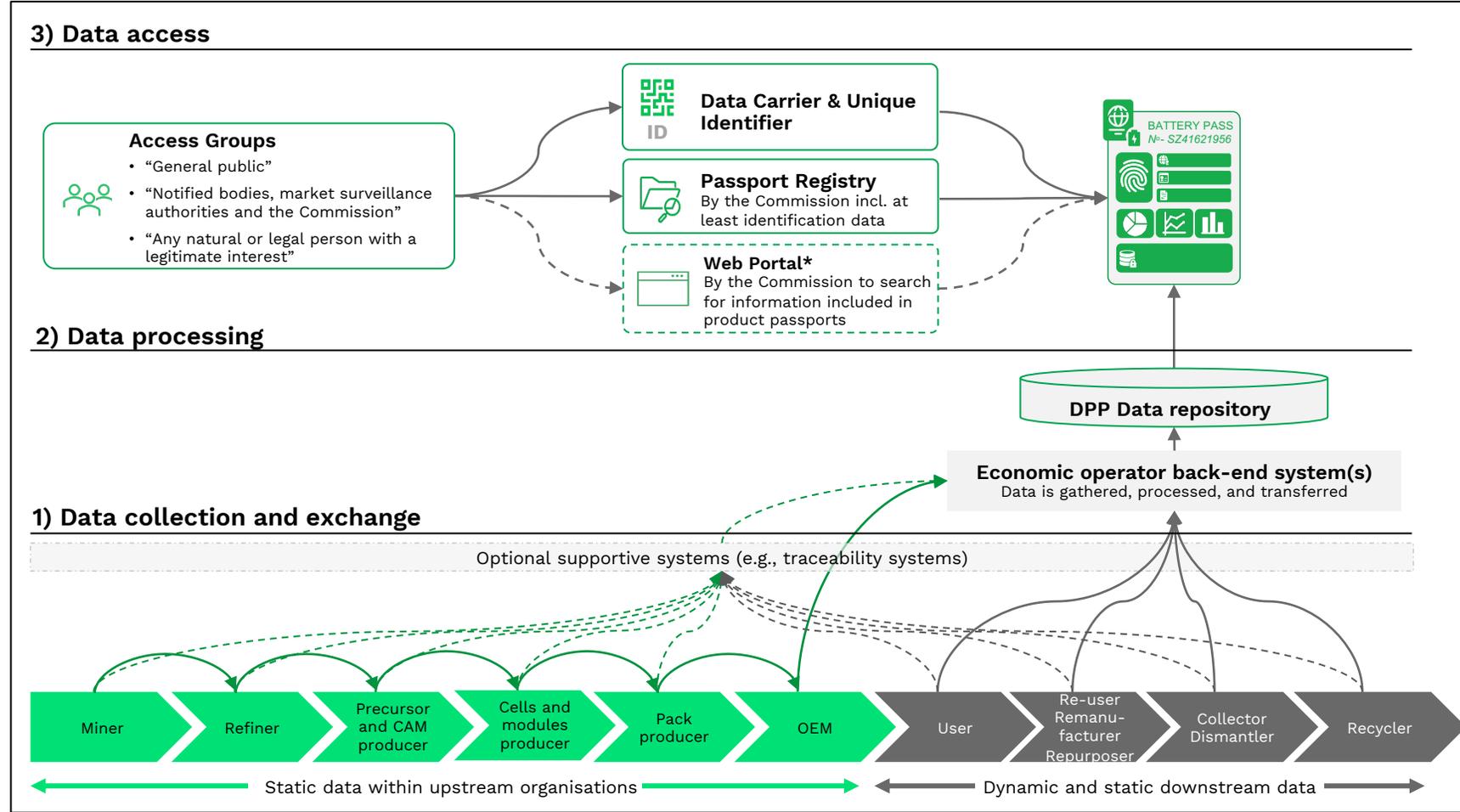
1) Labels and symbols are covered in section 5. „Battery materials and composition“ in the following. Information on compliance can be found in the main Guidance Document.

The battery passport system relies on data collection, processing and providing access to the different stakeholder groups

3) Data is accessed from product passport by pre-defined groups based on respective access rights

2) Data is gathered, processed and transferred to the product passport by the economic operator

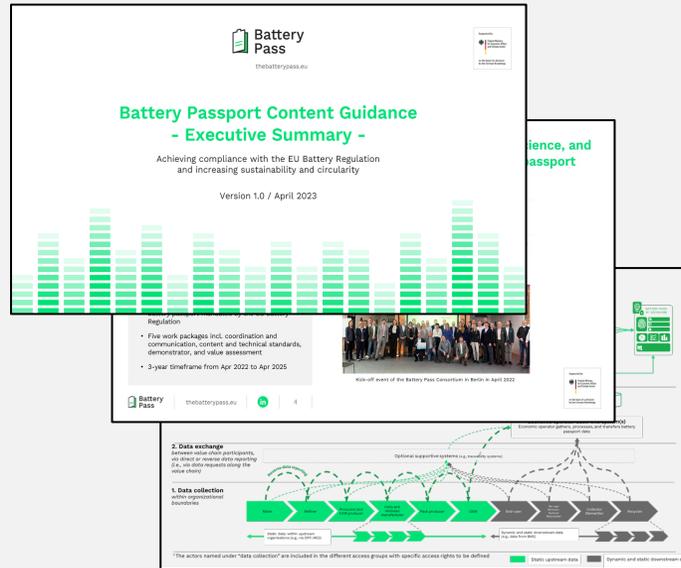
1) Data is collected within organisations and exchanged between value chain players



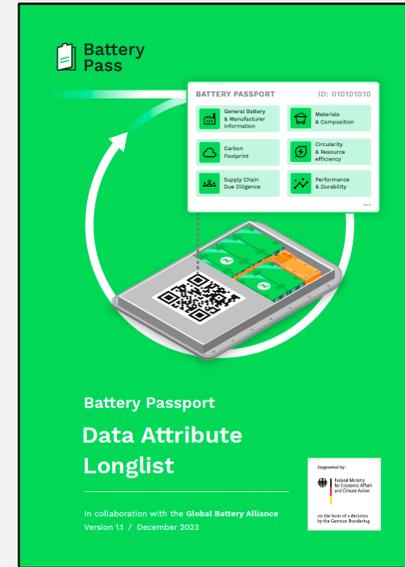
The content of the battery passport and all data attributes are explained in the Battery Pass Content Guidance



Comprehensive report
PDF report (200 pages)



Executive Summary
Slide deck



Data attribute longlist
Excel file

In work: DIN DKE SPEC 99100

- Document in **standardisation format** based on previous documents
- **Consortium:** Battery Pass consortium members & further interested stakeholders
- To be finalised by April 2024

Scope & Goal:

- Focus on battery passport content requirements
- Guidance for companies on how to implement the battery passport



All documents available
on the Battery Pass website



Thank you for your interest!

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